

FIG. 1

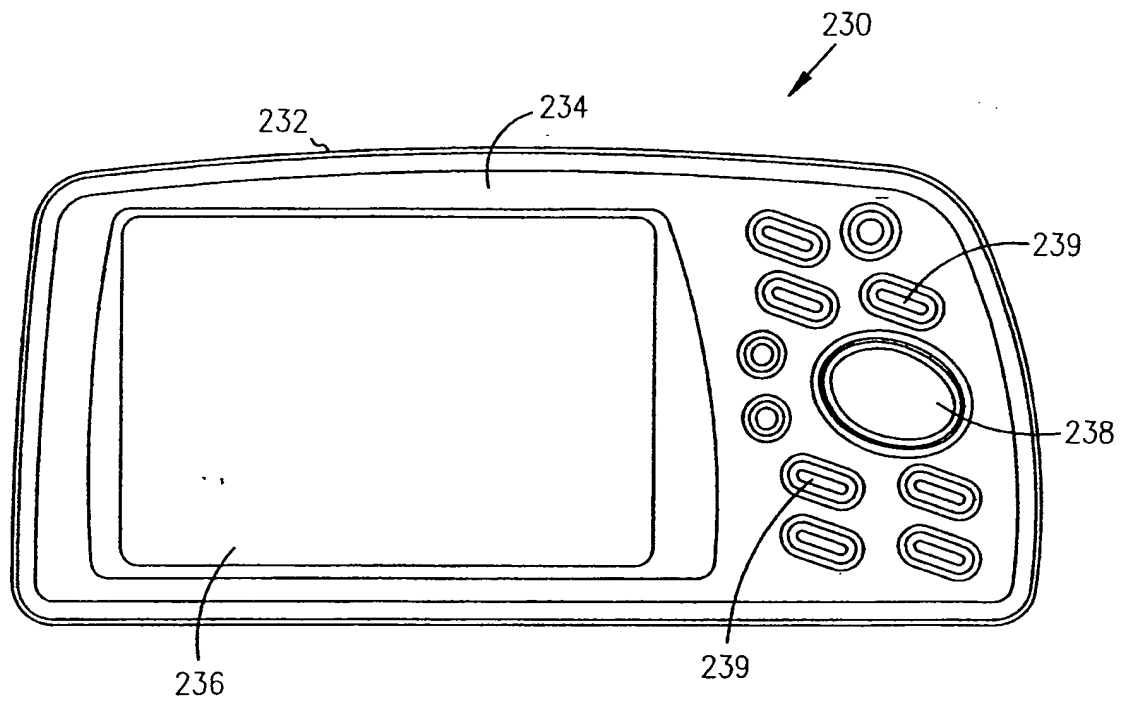


FIG. 2A

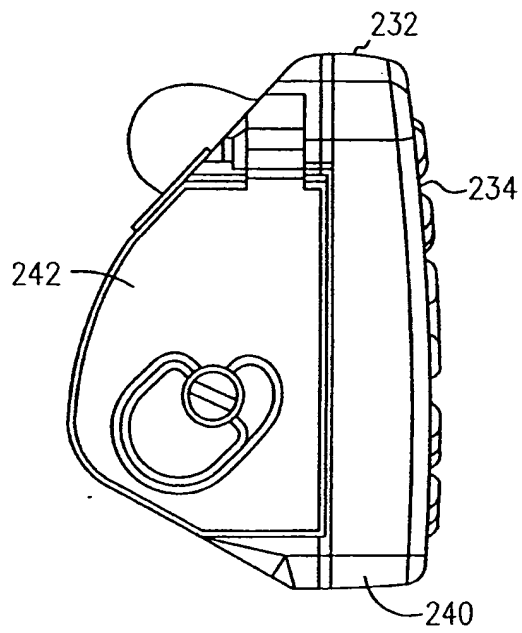


FIG. 2B

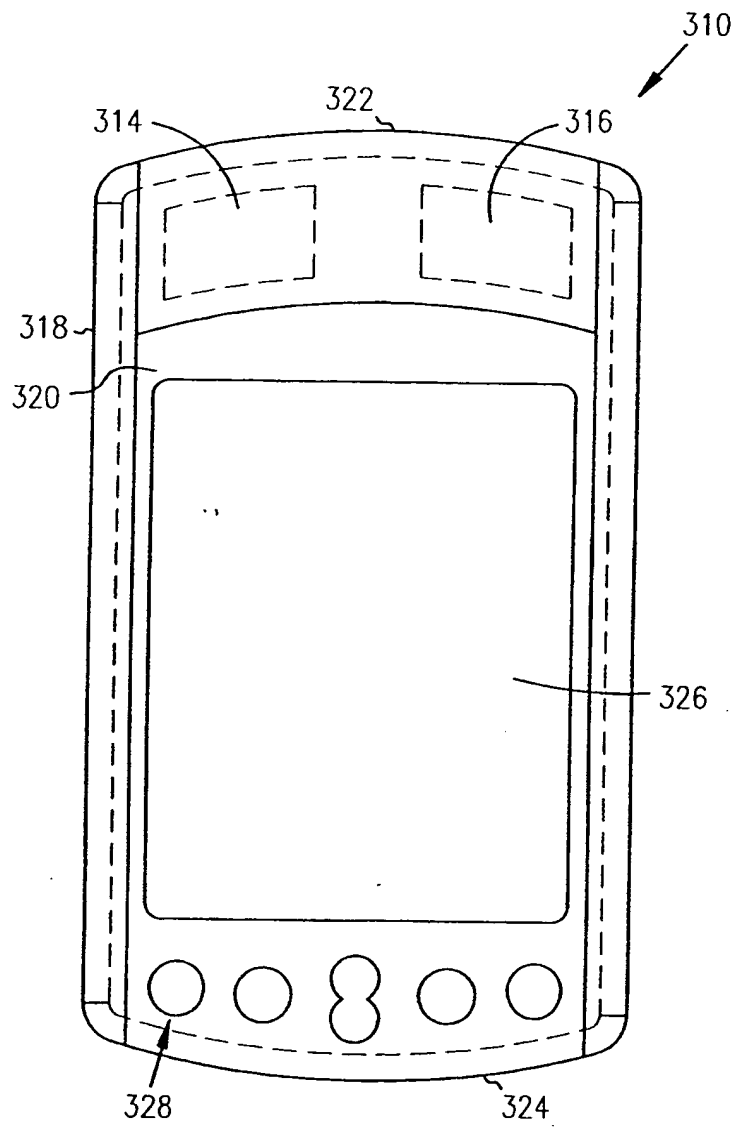


FIG. 3A

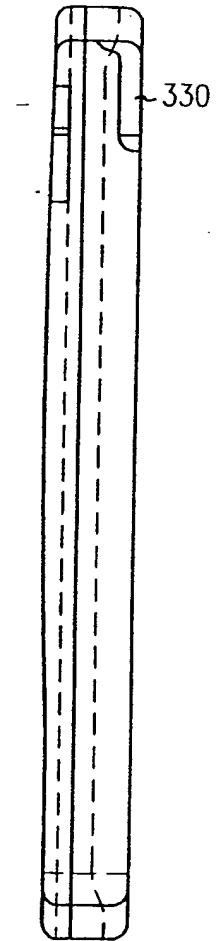


FIG. 3B

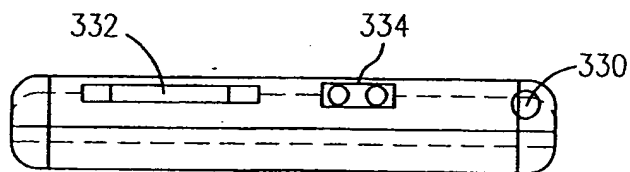
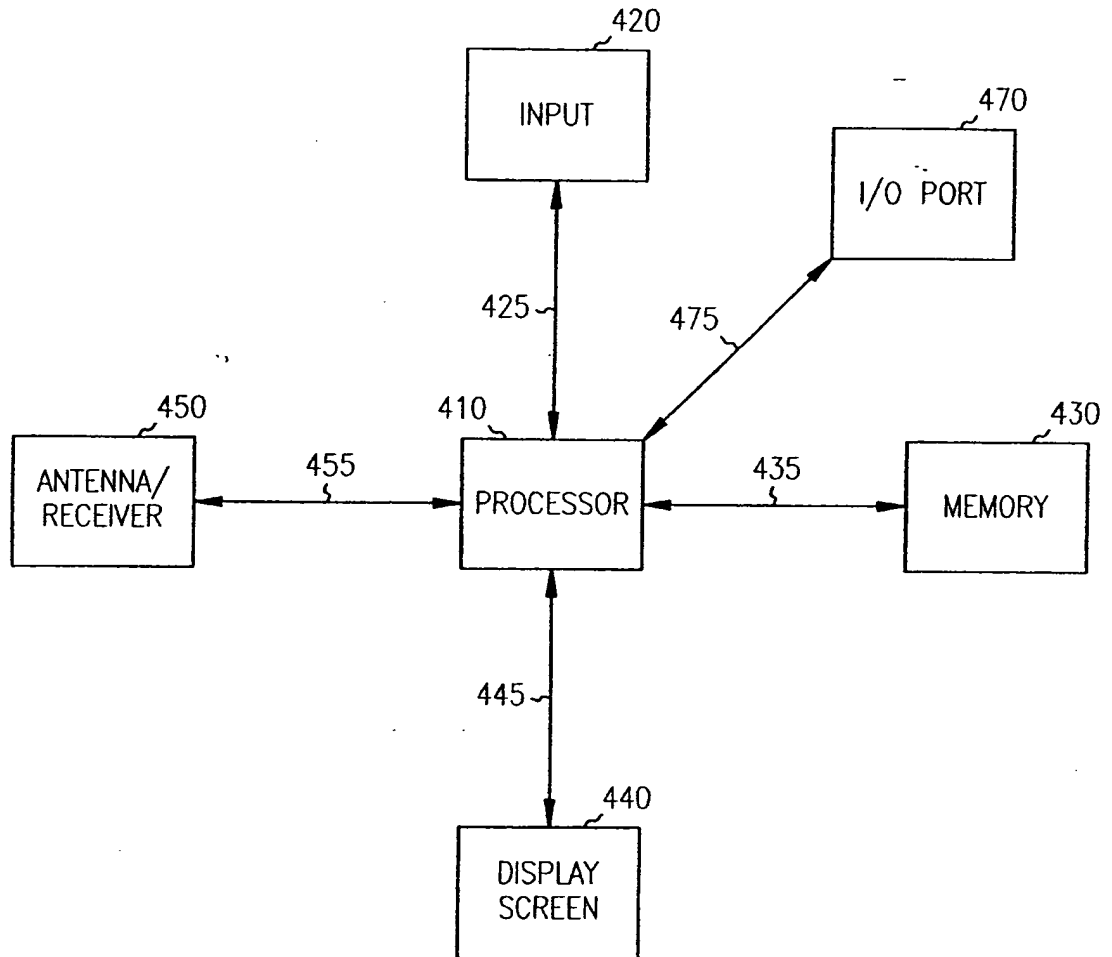


FIG. 3C

**FIG. 4A**

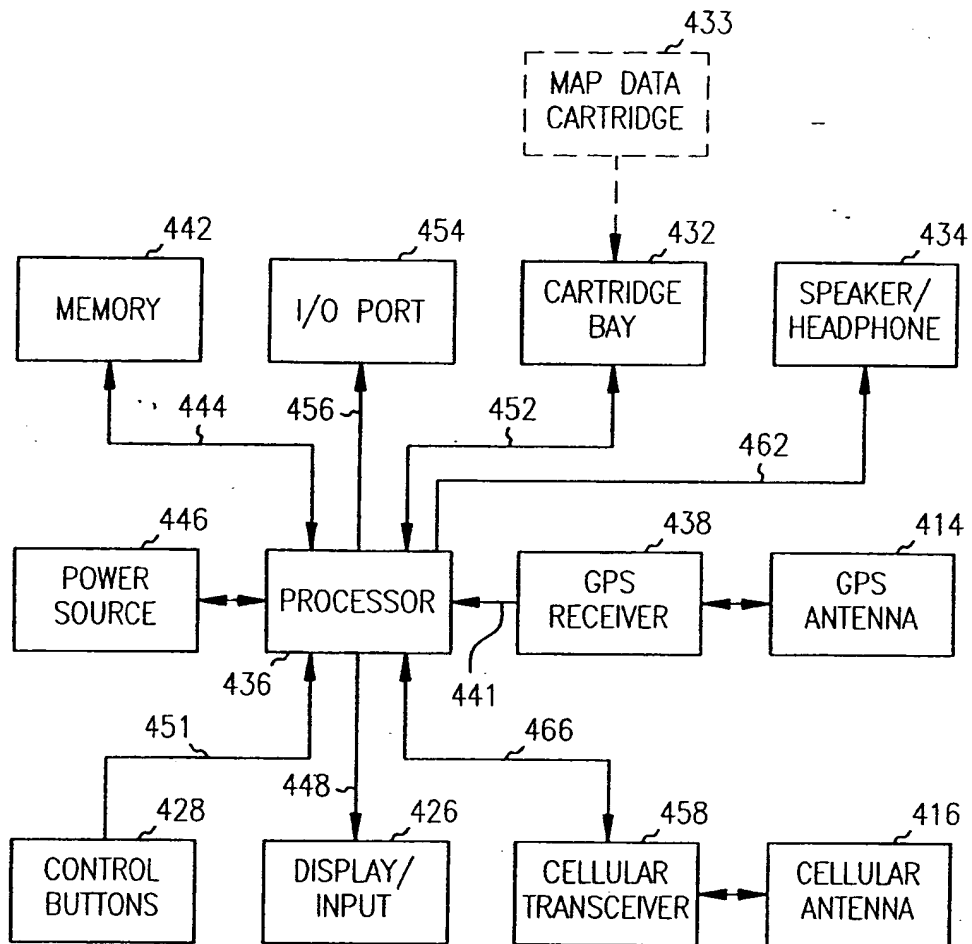


FIG. 4B

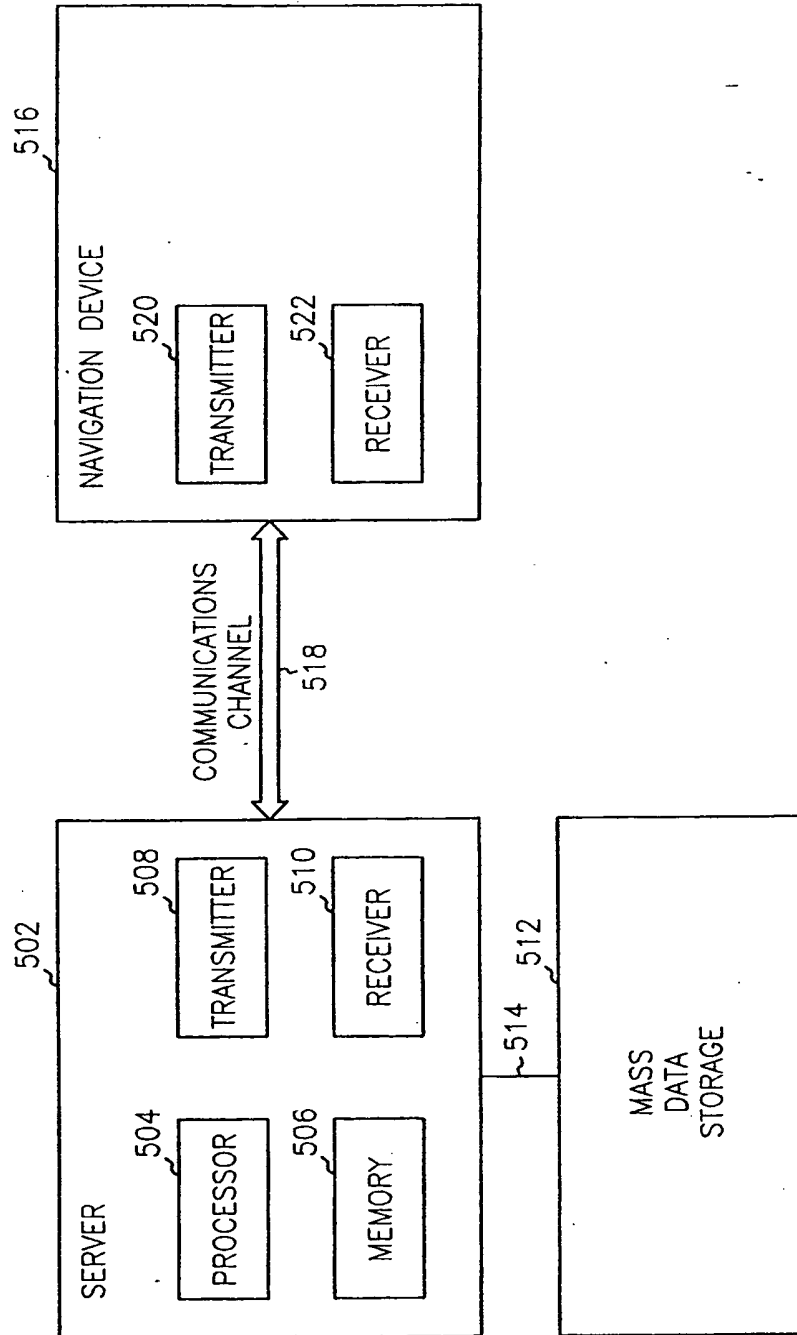
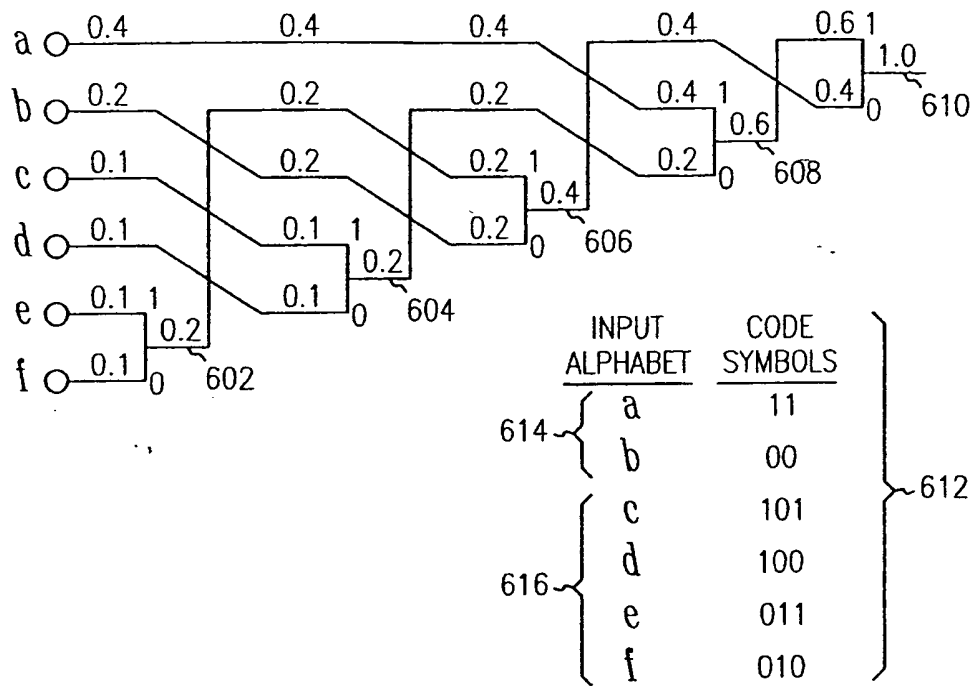
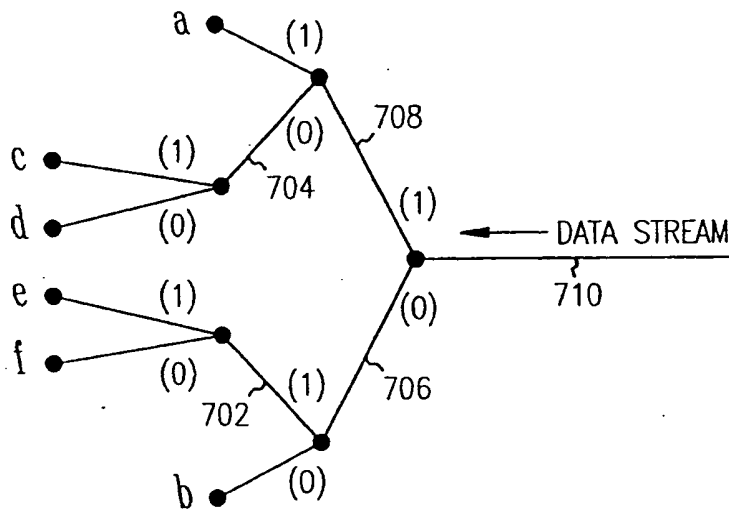


FIG. 5



**FIG. 6**  
(PRIOR ART)



**FIG. 7**  
(PRIOR ART)





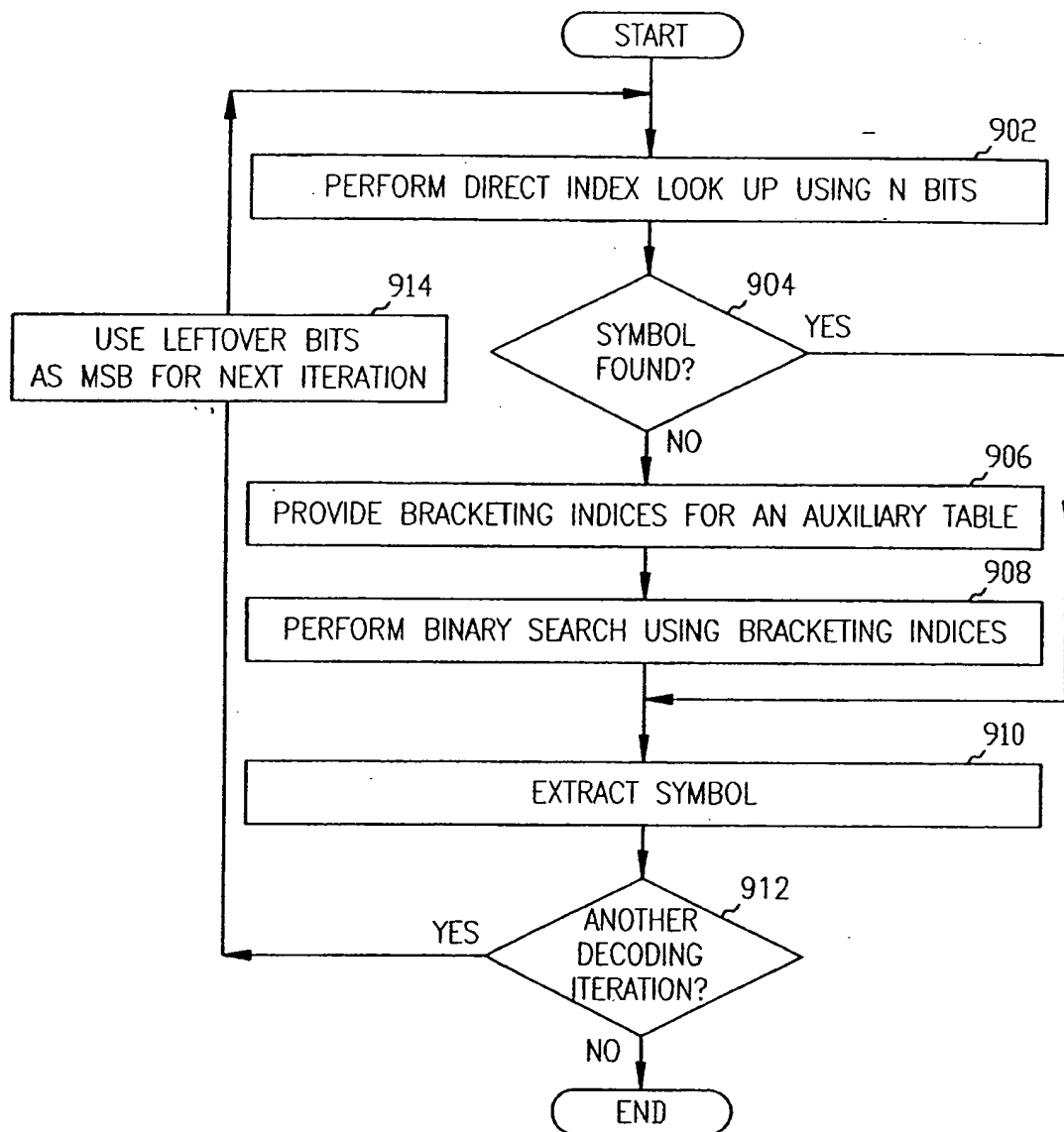


FIG. 9

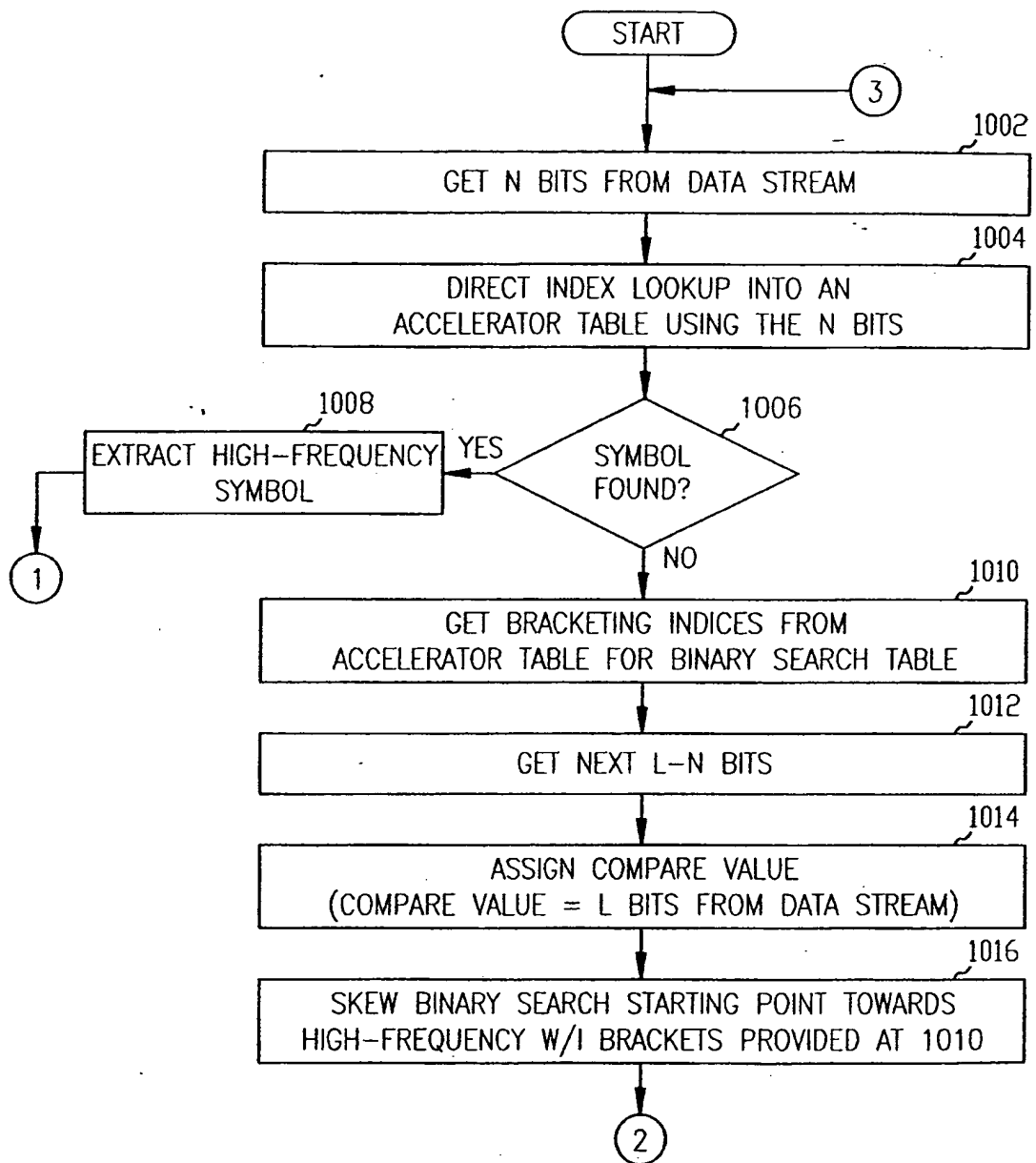


FIG. 10A

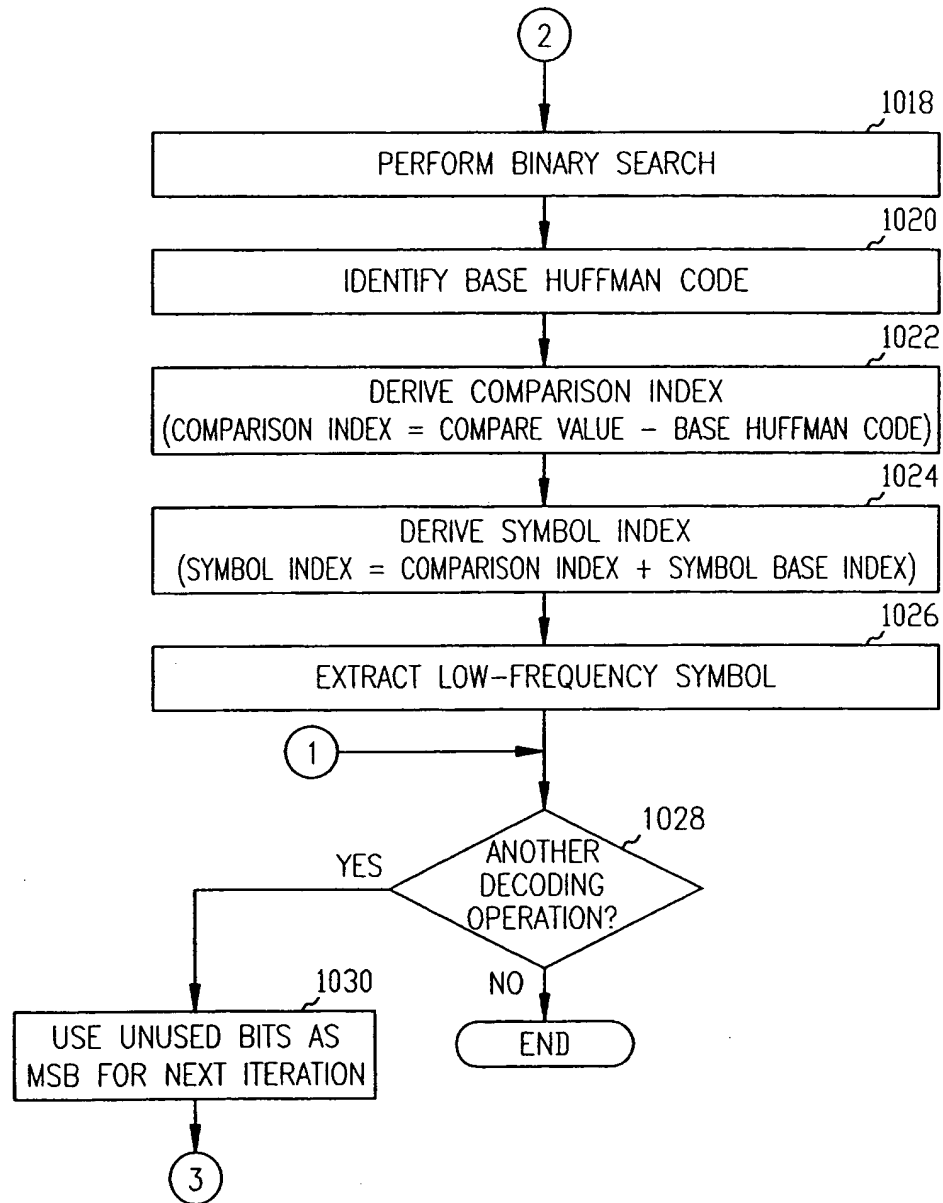


FIG. 10B

ASSIGNED CANONICAL HUFFMAN CODE																BIT LENGTH	SYMBOL	SYMBOL INDEX
MSB				LSB														
{ 1102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0x01	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	0x1D	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		'	2
	0	0	0	0	0	0	0	0	0	0	0	0	1	1			'	3
{ 1102	0	0	0	0	0	0	0	0	0	0	0	0	0	1		14	0x02	4
{ 1102	0	0	0	0	0	0	0	0	0	0	0	0	1			13	'/'	5
{ 1102	0	0	0	0	0	0	0	0	0	0	0	1				12	0x03	6
{ 1102	0	0	0	0	0	0	0	0	0	0	1					11	'-'	7
	0	0	0	0	0	0	0	0	0	1	0						'Q'	8
	0	0	0	0	0	0	0	0	0	1	1						'X'	9
{ 1102	0	0	0	0	0	0	0	0	0	1	0					10	'&'	10
	0	0	0	0	0	0	0	0	0	1	1						'Z'	11
{ 1102	0	0	0	0	0	0	0	0	0	1	0					9	'	12
	0	0	0	0	0	0	0	0	1	1							'J'	13

FIG. 11A

ASSIGNED CANONICAL HUFFMAN CODE										BIT LENGTH	SYMBOL	SYMBOL INDEX
MSB		LSB										
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	8	'0'	14
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'3'	15
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'4'	16
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'7'	17
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'8'	18
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'9'	19
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	7	'1'	20
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'2'	21
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'5'	22
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'6'	23
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'F'	24
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1		'Y'	25
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 1	6	0x20	26
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'B'	27
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'C'	28
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'H'	29
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'M'	30
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'P'	31
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'U'	32
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'V'	33
0 0		0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0		'W'	34

FIG. 11B

ASSIGNED CANONICAL HUFFMAN CODE													SYMBOL INDEX		
MSB					LSB									BIT LENGTH	SYMBOL
0	0	1	1	1	1								5		
0	1	0	0	0	0									'C'	36
0	1	0	0	1	1									'I'	37
0	1	0	1	0	0									'K'	38
0	1	0	1	1	1									'S'	39
0	1	1	0										4	0x1C	40
0	1	1	1											'A'	41
1	0	0	0											'D'	42
1	0	0	1											'E'	43
1	0	1	0											'L'	44
1	0	1	1											'N'	45
1	1	0	0											'O'	46
1	1	0	1											'R'	47
1	1	1	0											'T'	48
1	1	1	1											0x00	49

FIG. 11C

TABLE INDEX	COMPARE VALUE																BITS USED	SYMBOL BASE INDEX
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	14	4
2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	13	5
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	6
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	7
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	12
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	14
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	20
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	26
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	35
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	40

FIG. 12

TABLE INDEX	# BITS USED	SYMBOL	SEARCH TABLE START INDEX	SEARCH TABLE END INDEX
00000	5		0	7
00001	5		8	8
00010	5		8	9
00011	5		9	9
00100	5		9	9
00101	5		9	9
00110	5		9	9
00111	5	0x1B		
01000	5	'C'		
01001	5	'I'		
01010	5	'K'		
01011	5	'S'		
01100	4	0x1C		
01101	4	0x1C		
01110	4	'A'		
01111	4	'A'		
10000	4	'D'		
10001	4	'D'		
10010	4	'E'		
10011	4	'E'		
10100	4	'L'		
10101	4	'L'		
10110	4	'N'		
10111	4	'N'		
11000	4	'O'		
11001	4	'O'		
11010	4	'R'		
11011	4	'R'		
11100	4	'T'		
11101	4	'T'		
11110	4	0x0		
11111	4	0x0		

FIG. 13